Amendments to the Claims:

Below is a listing of all claims using a strikethrough and underlining to show changes.

- 1. (currently amended) A secure credit card, comprising:
- 5 a) a counter;
 - b) a pseudo-random bit sequence generator;
 - c) a clock for driving the counter and for driving the pseudo-random bit sequence generator, wherein the clock is operable for an unpredictable number of cycles, wherein the unpredictable number of cycles is determined by a human action of unpredictable duration.
 - 2. (original) The secure credit card of claim 1 wherein the counter is a first linear feedback shift register (LFSR).
- 15 3. (original) The secure credit card of claim 2 wherein the first LFSR has a different initial state compared to other issued credit cards.
 - 4. (original) The secure credit card of claim 2 wherein the first LFSR has a different configuration compared to other issued credit cards.

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- 5. (original) The secure credit card of claim 2 wherein the first LFSR is configured to have a sequence length of 2ⁿ-1, where n is a number of stages in the shift register.
- 6. (original) The secure credit card of claim 2 wherein the first LFSR has an initial state and configuration set by electronic fuses.
 - 7. (original) The secure credit card of claim 1 wherein the pseudo-random bit sequence generator is a second linear feedback shift register (LFSR).
- 30 8. (original) The secure credit card of claim 7 wherein the second LFSR has a different initial state compared to other issued credit cards.

- 9. (original) The secure credit card of claim 7 wherein the second LFSR has a different configuration compared to other issued credit cards.
- 5 10. (original) The secure credit card of claim 7 wherein the second LFSR is configured to have a sequence length of 2ⁿ-1, where n is a number of stages in the shift register.
 - 11. (original) The secure credit card of claim 7 wherein the second LFSR has an initial state and configuration set by electronic fuses.
 - 12. (original) The secure credit card of claim 1 wherein the clock drives the first counter and the second pseudo random bit generator for the same number of cycles.
- 13. (original) The secure credit card of claim 1 wherein the clock drives the first counter
 and the second pseudo random bit generator for numbers of cycles having a fixed
 mathematical relationship.
 - 14. (cancelled)
- 20 15. (original) The secure credit card of claim 1 wherein the clock has a clock speed in the range of about 0.1-100 megahertz.
 - 16. (original) The secure credit card of claim 1 wherein the first counter and second pseudo-random bit sequence generators are virtual entities emulated in an electronic processor.
 - 17. (original) The secure credit card of claim 1 further comprising a display for displaying numbers produced by the first counter and the second pseudo random bit generator.

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- 18. (original) The secure credit card of claim 1, further comprising a means for activating the card for a desired time duration.
- 19. (original) The secure credit card of claim 1, further comprising a means for activating the card for a desired number of transactions.
- 20. (original) The secure credit card of claim 1, further comprising a means for resetting a secure access code or PIN.
- 10 21. (currently amended) A secure credit card, comprising:

- a) a virtually emulated first linear-feedback shift register (LFSR);
- b) a second linear-feedback shift register (LFSR) or a second virtually emulated LFSR; and
- c) a clock for driving the first and second linear-feedback shift registers, wherein the clock is operable for an unpredictable number of cycles, wherein the unpredictable number of cycles is determined by a human action of unpredictable duration.
- 22. (original) The secure credit card of claim 21 wherein the first LFSR and second LFSR have different initial states compared to other issued credit cards..
 - 23. (original) The secure credit card of claim 21 wherein the first LFSR and second LFSR have different configurations compared to other issued credit cards..
- 24. (original) The secure credit card of claim 21 wherein the first LFSR and second LFSR are configured to have a sequence length of 2ⁿ-1, where n is a number of shift register stages.
- 25. (original) The secure credit card of claim 21 wherein the first LFSR and second LFSR each have an initial state and configuration set by electronic fuses.

- 26. (original) The secure credit card of claim 21 wherein the clock drives the first LFSR and the second LFSR for the same number of cycles.
- 27. (original) The secure credit card of claim 21 wherein the clock drives the first LFSR
 and the second LFSR for numbers of cycles having a fixed mathematical relationship.
 - 28. (cancelled)
- 10 29. (cancelled)

- 30. (original) A method for authenticating a secure credit card having a linear feedback shift register (LFSR), comprising the steps of:
- a) sending from the credit card to a financial institution a card identification number uniquely associated with LFSR settings;
 - c) sending from the financial institution to the credit card a request for an output of the LFSR after m clock cycles;
 - d) operating the LFSR for m clock cycles to produce an LFSR output;
 - e) sending the LFSR output from the card to the financial institution;
- 20 f) comparing the LFSR output with LFSR settings for the credit card to authenticate the credit card.
 - 31. (original) The method of claim 30 further comprising the step of looking up in a database at the financial institution the settings information associated with the card identification number.
 - 32. (original) A method for authenticating a secure credit card having a counter and a pseudo-random bit sequence generator (GEN), comprising the steps of:
- a) driving the counter and the GEN for numbers of cycles having a fixed or predictable
 mathematical relationship;
 - b) transmitting to a financial institution outputs of the counter and GEN after step (a);

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- c) authenticating the credit card by comparing the outputs produced in step (b) with settings of the counter and GEN known to the financial institution.
- 33. (original) The method of claim 32 wherein the counter and GEN are driven for the same number of cycles.
 - 34. (original) The method of claim 32 wherein the unpredictable number of cycles is determined by a clock operated for an unpredictable duration.
- 10 35. (original) The method of claim 34 wherein the unpredictable duration is determined by a human action.
 - 36. (new) The secure credit card of claim 1 wherein said unpredictable number of cycles is determined by a human action of unpredictable duration is determined by one of a duration a keypad is pressed, a duration between two keypad entries, or a duration between card activation and communication with a card reader.
 - 37. (new) The method of claim 35 wherein said human action is determined by one of a duration a keypad is pressed, a duration between two keypad entries, or a duration between card activation and communication with a card reader.
 - 38. (new) The method of claim 32 wherein in said driving step, said counter and GEN are each driven for a plurality of cycles.

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